

## EAST Search History

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| L1    | 219  | (271/256).CCLS.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/01/17 20:26 |
| L2    | 11   | 1 and brak\$6   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/01/17 20:26 |
| L3    | 4    | 1 and brak\$6 and frict\$4  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/01/17 20:28 |
| L4    | 2452 | ((271/270) or (271/272) or (271/202) or (271/116) or (271/256)).CCLS.                         | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/01/17 20:29 |
| L5    | 102  | ((271/270) or (271/272) or (271/202) or (271/116) or (271/256)).CCLS.                         | US-PGPUB                                    | OR               | OFF     | 2007/01/17 20:30 |
| L6    | 80   | (sheet or paper or media) and (nip with roll\$4) with (brak\$4 or friction\$5) with clutch\$4 | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/01/17 20:35 |
| L7    | 2058 | (sheet or paper or media) and (roll\$4) with (brak\$4 or friction\$5) with clutch\$4          | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2007/01/17 20:35 |
| S2    | 1049 | 271/272   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2006/05/14 21:50 |
| S3    | 2030 | ((271/272) or (271/270) or (271/202)).CCLS.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2006/10/13 19:40 |
| S4    | 251  | S3 and clutch   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR               | OFF     | 2006/05/13 14:37 |

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|     |     |  |   |    |     |                  |
|-----|-----|--|---|----|-----|------------------|
| S5  | 138 | S3 and clutch and spring   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 14:38 |
| S6  | 113 | S3 and clutch and spring and speed   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:10 |
| S7  | 11  | S3 and (clutch same (slip\$6)) and spring and speed and (discharg\$6)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:28 |
| S8  | 1   | S3 and ((spring with clutch) same (slip\$6) same (discharg\$4 or convey\$4 or transport\$4)) and speed             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:31 |
| S9  | 3   | S3 and ((spring with clutch) same (slip\$6)) and speed   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:32 |
| S10 | 32  | S3 and ((clutch\$4) same (slip\$6)) and speed  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:37 |
| S11 | 93  | S3 and ((clutch\$4) and (slip\$6)) and speed   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:38 |
| S12 | 84  | S3 and ((clutch\$4) and (slip\$6)) and speed and roller  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:38 |
| S13 | 63  | S3 and ((clutch\$4) and (slip\$6)) and speed and ((discharg\$4 or exit or convey\$4 or transport\$4) with roller)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:39 |
| S14 | 15  | S3 and ((clutch\$4) and (slip\$6)) same ((discharg\$4 or exit or convey\$4 or transport\$4) with roller) and speed | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:43 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S15 | 43396 | "271"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:42 |
| S16 | 136   | S15 and ((clutch\$4) and (slip\$6)) same ((discharg\$4 or exit or convey\$4 or transport\$4) with roller) and speed                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/10/13 17:03 |
| S17 | 21    | S15 and ((clutch\$4) same (slip\$6)) same ((discharg\$4 or exit or convey\$4 or transport\$4) with roller) same speed                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 15:56 |
| S18 | 10    | S15 and ((clutch\$4) same (slip\$6)) same (discharg\$4 or exit) same speed   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/01/17 20:25 |
| S19 | 15    | S15 and ((clutch\$4) same ((overrun\$4) or (over-run\$6) or (over adj run\$6) or (slip\$6))) same (discharg\$4 or exit) same speed               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 16:13 |
| S20 | 4     | ("5724626" "6135448").PN.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 16:13 |
| S21 | 21    | ("3199864"   "3227444"   "3700231"   "3942785"   "3944212"   "3966194"   "4113244"   "4359217"   "4365889"   "4477068").PN. OR ("4526361").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/05/13 17:00 |
| S22 | 17    | ("3942786"   "4040617"   "4073223"   "4468021").PN. OR ("4569514").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/05/13 17:19 |
| S23 | 12    | ("3506110"   "4314644"   "4597490"   "4705159"   "4931826"   "5374052"   "5653328"   "5675836"   "5678111").PN. OR ("6135448").URPN.             | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/05/13 18:00 |
| S24 | 8     | ("4126391"   "4705376"   "4864355"   "4926211"   "5430520"   "5446520").PN. OR ("5724626").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                            | OR | OFF | 2006/05/13 18:11 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S25 | 630   | (271/270).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 19:10 |
| S26 | 364   | (271/202).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/13 19:10 |
| S27 | 43396 | "271"/*.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 21:51 |
| S28 | 99    | S27 and (clutch) and (friction adj pad)                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 21:51 |
| S29 | 11    | S27 and (clutch) with (friction adj pad)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:09 |
| S30 | 20    | S27 and (clutch) same (friction adj pad)                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:18 |
| S31 | 664   | S27 and (clutch) same (friction)                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:18 |
| S32 | 231   | S27 and ((clutch) same (friction) same (spring))             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:38 |
| S33 | 1     | S27 and ((clutch) same (friction adj collar) same (spring))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:39 |
| S34 | 2     | S27 and ((clutch) same (friction with collar) same (spring)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:45 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S35 | 43396 | "271"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:46 |
| S36 | 46    | S35 and ((clutch) same (friction) same ((contact\$4) with roller) same (spring)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:52 |
| S37 | 363   | 271/116  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:52 |
| S38 | 272   | S37 and clutch\$4  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:52 |
| S39 | 251   | S37 and clutch\$4 and (friction or contact\$4)                                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:53 |
| S40 | 216   | S37 and clutch\$4 and (friction or contact\$4) and spring\$4                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 23:01 |
| S41 | 208   | S37 and clutch\$4 and ((friction or contact\$4) same roll\$4) and spring\$4      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:53 |
| S42 | 152   | S37 and clutch\$4 and ((friction ) same roll\$4) and spring\$4                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 22:53 |
| S43 | 30    | S37 and (clutch\$4 same (friction) same ((contact\$4) with roll\$4))             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 23:15 |
| S44 | 16    | S37 and (clutch\$4) same (friction with (contact\$4) with roll\$4)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2006/05/14 23:19 |

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|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S45 | 93    | S35 and (clutch\$4) same (friction with (contact\$4) with roll\$4)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/05/14 23:20 |
| S46 | 10    | S35 and (torque adj limit\$4) and (clutch\$4) same (friction with (contact\$4) with roll\$4)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/05/14 23:27 |
| S47 | 2     | S35 and (((torque adj limit\$4) or (clutch\$4)) adj (contact\$4) with roll\$4)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/05/14 23:29 |
| S48 | 348   | S35 and (((torque adj limit\$4) or (clutch\$4)) with (contact\$4) with roller)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/05/14 23:30 |
| S49 | 262   | S35 and ( (clutch\$4) with (contact\$4) with roller)   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/05/14 23:30 |
| S50 | 2     | "5749569".pn.  | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/05/15 00:32 |
| S51 | 43735 | "271"/\$.ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/13 17:05 |
| S52 | 16    | S51 and (((clutch\$4) and (slip\$6)) same ((discharg\$4 or exit or convey\$4 or transport\$4) with roller) same (friction\$4) same (bias\$4 or spring\$4)) | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/13 18:09 |
| S53 | 39    | S51 and (((discharg\$4 or exit or convey\$4 or transport\$4) with roller with end) with (friction\$4) with (press\$4 or bias\$4 or spring\$4))             | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/13 18:10 |
| S54 | 2038  | ((271/272) or (271/270) or (271/202) or (217/116)).CCLS.   | US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/10/13 19:46 |

## EAST Search History

|     |      |                                |     |    |     |                  |
|-----|------|--------------------------------|-----|----|-----|------------------|
| S55 | 3386 | B65H003/52.ipc.                | JPO | OR | OFF | 2006/10/13 19:47 |
| S56 | 7    | B65H003/52.ipc. and chamfer\$4 | JPO | OR | OFF | 2006/10/13 19:49 |
| S57 | 5    | B65H003/06.ipc. and chamfer\$4 | JPO | OR | OFF | 2006/10/13 19:49 |
| S58 | 0    | B65H003/52.ipc. and bevel\$4   | JPO | OR | OFF | 2006/10/13 19:49 |
| S59 | 4    | B65H003/06.ipc. and bevel\$4   | JPO | OR | OFF | 2006/10/13 19:50 |